## Erin Elizabeth Conlisk

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## EDUCATION

2007 Ph.D. in Energy and Resources Group, UC Berkeley. Dissertation: *A New Class of Spatial Models with Applications to Abundance Prediction*. Advisor: John Harte.

2003 M.S. in the Energy and Resources Group, UC Berkeley. Thesis: *Dry Deposition of Nitric Acid in Blodgett Forest*. Advisor: Dennis Baldocchi.

2002 M.S. in Chemistry, UC Berkeley. Examination. Advisor: Ron Cohen.

2000 B.S. dual major in Biology-Chemistry, Claremont-McKenna College, 2000 (Magna Cum Laude). Honors thesis: *Preferences of the Ribeiroia Parasite for Frog or Toad Tadpoles and for Goldfish.* Study abroad in Australia and Ecuador (completed a semester thesis, written in Spanish: *Frog calls in Yasuni Park*).

## PROFESSIONAL POSITIONS

2014- Postdoctoral Researcher at University of California, Berkeley.

2012-2014 Postdoctoral Researcher in the San Diego Zoo's Institute for Conservation Research.

2010-2012 Postdoctoral Researcher at University of California, Riverside.

2009-2010 Postdoctoral Fellow, Forestry and Forest Products Research Institute, Tsukuba, Japan.

2007-2010 Associate Scientist at the Pesticide Research Institute.

2007-2008 Researcher for Freedom to Roam and the California Academy of Sciences.

2004-2007 Graduate Student Researcher in the Energy and Resources Group.

2003-2005 Rocky Mountain Biological Laboratory Research Assistant.

2001-2002 Graduate Student Researcher in Chemistry.

## PUBLICATIONS

Conlisk, E., A. Syphard, J. Franklin, H. Regan. In review at *Ecological Modelling*. Predicting the impact of fire on a vulnerable multi-species community using a dynamic vegetation model.

Kitzes, J., E. Berlow, E. Conlisk, K. Erb, K. Iha, N. Martinez, E. Newman, C. Plutzar, A.B. Smith, J. Harte. In review at *Proceedings of the Royal Society B.* The global wildlife footprint: linking biodiversity loss to economic consumption.

Conlisk, E., S. Motheral, R. Chung, C. Wisinski, B. Endress. 2014. Using spatially explicit population models to determine ideal restoration sites for the coastal cactus wren. *Biological Conservation* 175: 42-51.

Conlisk, E., A. Syphard, J. Franklin, H. Regan. 2013. Understanding and Improving Wildfire Decision Support for Marine Corps Base Camp Pendleton: User's Manual for the Simulated Response of Vegetation and At-Risk Species to Fire. Final Report to Land Management

Branch AC/S Environmental Security, United States Marine Corps Base Camp Pendleton. U.S. Army Corps of Engineers Award W9126G-10-2-09943, 176 pp.

Conlisk, E., A. Syphard, J. Franklin, L. Flint, A. Flint, H. Regan. 2013. Uncertainty in assessing the impacts of global change using combined species distribution population models. *Global Change Biology* 19: 858-869.

Conlisk, E., and J. Conlisk. 2012. Modeling spatial aggregation of finite populations: Comment. *Ecology*, 93, 2497-2498.

Conlisk, E., D. Lawson, A. Syphard, J. Franklin, L. Flint, A. Flint, H. Regan. 2012. The roles of dispersal, fecundity, and predation on the population of an oak (*Quercus engelmannii*) under global change. *PLoS One*, 7, e36391.

Conlisk, J., E. Conlisk, A. bin Kassim, I. Billick, J. Harte. 2012. The shape of spatial abundance distributions. *Global Ecology and Biogeography*, 21, 1167-1178.

Conlisk, J., E. Conlisk, J. Harte. 2010. Hubbell's local abundance distribution: Insights from a simple colonization rule. *Oikos,* 119, 379-383.

Kegley, S., E. Conlisk. 2010. Pesticide Risk Mitigation Engine (PRiME): Inhalation Risk Index. http://ipmprime.org/cigipm/materials/PRiME_Inhalation_Index_white_paper_092910.pdf Technical Report supporting online pesticide risk tool for farmers: http://ipmprime.org/cigipm/

Conlisk, E., J. Conlisk, J. Harte. 2009. Improved abundance prediction from presence-absence data. *Global Ecology and Biogeography* 18:1-10.

Harte, J., T. Zillio, E. Conlisk, A. Smith. 2008. Maximum entropy and the state variable approach to macroecology. *Ecology* 89: 2700-2711.

Kegley, S., E. Conlisk, M. Moses. 2008. Risk Assessment for the Marin Municipal Water District's Vegetation Management Plan. Online at: http://www.marinwater.org/183/Wildfire-Protection-Habitat-Improvement-.

Conlisk, E., M. Bloxham, J. Conlisk, B. Enquist, J. Harte. 2007. A new class of models of spatial distribution. *Ecological Monographs* 77: 269-286.

Conlisk, E., J. Conlisk, J. Harte. 2007. The impossibility of measuring a negative binomial clustering parameter from presence-absence data. *American Naturalist* 70(4): 651-654.

Harte, J., E. Conlisk, J. Green, A. Ostling, A. Smith. 2005. A theory of spatial structure in ecological communities at multiple spatial scales. *Ecological Monographs* 75: 179-197.

## MANUSCRIPTS

Conlisk, E., R. Swab, A. Martinez-Berdeja. Working Manuscript. Post-fire seed and vegetation dynamics in coastal sage scrub.

Conlisk, E., Castanha, C., Moyes, A., Germino, M., Kueppers, L. In Preparation. Subalpine conifer response to climate change with experimental warming.

Conlisk, E. In Preparation. A comparison of individual-based and matrix population models for reserve design.

Conlisk, E., S. Motheral, B. Endress. In Preparation. Post-restoration lag-time for seed bank recovery compared to above-ground vegetation.

Conlisk, E. In Preparation. Colonization Rules in Ecology.

Conlisk, E., M. Takada, N. Tanaka. In Preparation. Altered floral diversity due to climate change in Hokkaido, Japan.

## PROFESSIONAL ACTIVITIES

### TEACHING

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| 2013 | Conservation Research in San Diego Zoo's Masters Program. Taught the "Restoration Ecology" module including field trips. |
| 2005 | Graduate Student Instructor in environmental problem solving at the University of California, Berkeley. Taught weekly discussion sections. |
| 2004 | Graduate Student Instructor in biology at University of California, Berkeley. Taught weekly discussion sections and labs. |
| 2000-2002 | Graduate Student Instructor in chemistry at University of California, Berkeley. Taught weekly discussion sections and labs. |
| 1999-2000 | Weekly guest science teacher at elementary school. |

### RECENT PRESENTATIONS

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| 2014 | *Predicting the impact of fire on a vulnerable multi-species community using a dynamic vegetation model.* Ecological Society of America (ESA) Conference. Sacramento, CA. |
| 2013 | *Post-fire vegetation recovery at the Motte-Rimrock Reserve*. Invited presentation to the Riverside County Habitat Conservation Association. Riverside, CA. |
| 2013 | *Choosing the optimal site for San Diego cactus wren restoration*. Ecological Society of America (ESA) Conference. Minneapolis, MN. |
| 2013 | *Modeling the optimal site for coastal cactus wren habitat restoration to mitigate the threats of fragmentation and wildfire.* Society for Conservation Biology Conference. Baltimore, MD. |
| 2013 | *Uncertainty in dynamic population models of global change*. Invited presentation to the Missouri Botanic Gardens. St Louis, MO. |
| 2013 | *A global change population case study of the Southern California annual plant Acanthomintha ilicifolia*. Invited presentation to the San Diego Management and Monitoring Program. San Diego, CA. |
| 2012 | *A sensitivity analysis of spatially dynamic population models of global change.* Ecological Society of America (ESA) Conference. Portland, OR. |
| 2012 | *Uncertainty in hybrid species distribution-population models.* Conservation Management and Climate Change in Southern California Symposium. Palm Desert, CA. |
| 2012 | *Using population models to predict the impacts of fire, climate change, and land use change*. Invited presentation at California State, Fullterton. Fullerton, CA. |

JOURNAL REFEREE

*Ecology*, *Ecology Letters*, *Global Ecology and Biogeography*, *Global Change Biology*, *Conservation Biology*, *Landscape Ecology*, *PLoS One*, *Ecosphere*, *Methods in Ecology and Evolution*, *Ecological Research*, *Environmental and Ecological Statistics*, *Biometrics*, *Statistics and Probability Letters*.

## AWARDS

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| 2013 | California State Coastal Conservancy Climate Ready grant ($150,000) |
| 2013 | Wildlife Conservation Society Climate Adaptation grant ($175,000) |
| 2011 | Research grant from the Riverside Habitat Conservation Agency ($10,000). |
| 2009 | Japanese Society for the Promotion of Science Postdoctoral Fellowship ($50,000). |
| 1996-2000 | McKenna Scholar, Claremont McKenna College ($40,000). |
| 2000 | Phi Beta Kappa, summa cum laude, Claremont McKenna College. |

## REFERENCES

Dr. Lara Kueppers. Postdoctoral Advisor. UC Merced and Lawrence Berkeley National Lab. Earth Sciences Division: Climate Sciences Department. 1 Cyclotron Rd., Berkeley, CA 94720. lkueppers@ucmerced.edu. 510-486-5813.

Professor Helen Regan. Postdoctoral Advisor. University of California, Riverside, Department of Biology, 3358 Spieth Hall, Riverside, CA 92521. helen.regan@ucr.edu. 951-827-3961.

Professor John Harte. Dissertation Advisor. University of California, Berkeley, Energy and Resources Group, and Environmental Science, Policy and Management, 310 Barrows Hall, Berkeley, CA 94720-3050. jharte@berkeley.edu. 510-642-8553.

Dr. Susan Kegley. Pesticide Research Institute. 2768 Shasta Rd. Berkeley, CA 94708. skegley@pesticideresearch.com. 510-759-9397.

Professor Janet Franklin. Postdoctoral Advisor. Arizona State University, School of Geographical Sciences and Urban Planning, P.O. Box 875302, Tempe, AZ 85287-5302, USA. janetfranklin1@gmail.com. 480-965-9884.